

hp desktop & network
data storage

take a different view

technical specifications
autumn 2000



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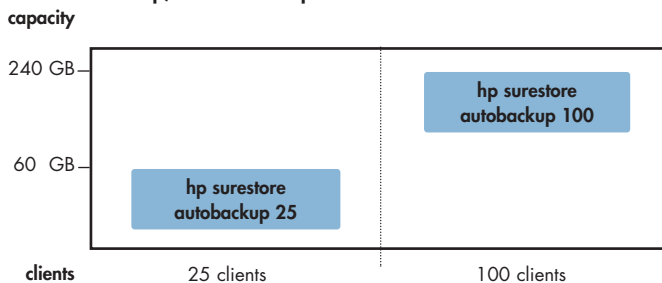
hp desktop &
network data
storage

protection for the
knowledge-based
economy

The average desktop has never contained so much computing power, or such a range of applications. Whether the PC on that desktop is standalone, or connected to a local area network, they all share certain features - an explosion in the quantity of data that they generate, and a constant upward curve in the quantifiable value of that data.

Whether the customer is an independent SOHO, or a large enterprise it is not enough simply to keep pace with developments in desktop PCs and servers. Backup solutions have to look a long way down the road, anticipate future needs and add strategic value across the organisation.

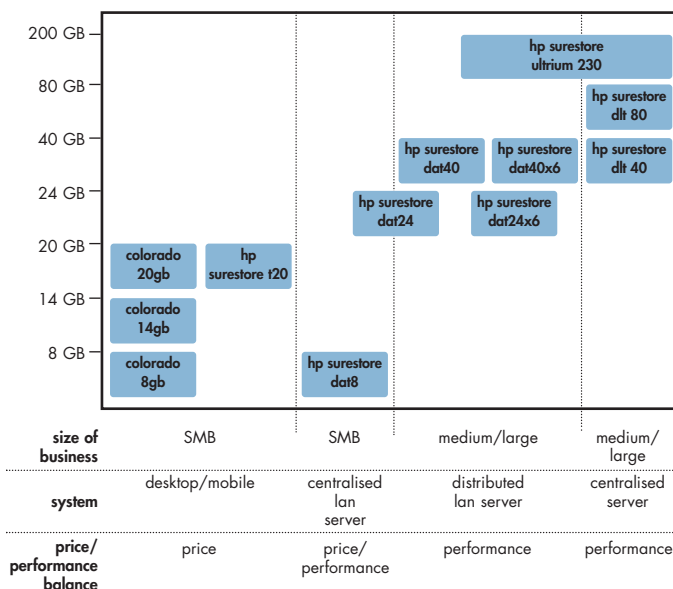
desktop/mobile backup



These developments are fully reflected in the desktop/network data storage section. It starts with HP Colorado drives - which remain one of the best combinations of economy and reliability for entry level backup. The section works through to the revolutionary, new HP Ultrium drives which, with capacity up to 200 GB, meet requirements that only a year or so ago were the domain of autoloader and tape libraries.

In between these extremes is a range of DAT and DLT tape drives to meet the needs of virtually any permutation of budget, capacity and performance. Common to all of these HP solutions are extreme reliability, unmatched ease-of-use and broad-based, tested systems compatibility.

desktop/network tape backup



hp colorado tape drives



full-system protection
for pcs covering 8 gb
up to 20 gb

When data simply has to be protected, HP Colorado tape drives offer three easy-to-use solutions covering a range of price and performance points in a tape format of proven reliability.

HP Colorado tape drives are ideal for small businesses and home-offices with individual desktop or laptop PCs. Capacity points cover 8 GB, 14 GB and 20 GB - enough to cover the backup, full system protection and archiving of virtually any individual workstation. For individuals who do not generally have the assistance of an IT specialist, these HP Colorado tape drives offer complete reliability and ease-of-use.

key features

hp colorado tape drives

- Colorado Backup II software automatically restores all data plus the operating system for full system protection and disaster recovery.
- Backup and restore can be completed in minimal time with transfer rates between 4.2 GB/hour (HP Colorado 8GBi) and 6.6 GB/hour (HP Colorado 20GBi).
- Placemat and Install Assistant software provides step by step instructions for non-specialist users.
- One button full-system backup at the click of a mouse.
- Unique Media Monitor feature warns users when an HP tape is nearing the end of its reliable life.
- Two-year standard exchange warranty.

technical specifications

capacity

8GB: 4 GB native, 8 GB compressed*

14GB: 7 GB native, 14 GB compressed*

20GB: 10 GB native, 20 GB compressed*

read/write compatibility

8GB: HP Colorado 8GB, 5 GB, T4000 and T4 cartridges.

Backward compatibility: 8GB-5GB; reads QIC-3020, QIC-3010, QIC-80, TR3, TR1 cartridges.

14GB: HP Colorado 14 GB Travan Data Cartridge.

Backward read (Windows 95/98 NT WS 4.0 only): HP Colorado 5 GB, 8 GB, T4000 and T4 backup tapes

20GB: Reads and writes: HP Colorado 20 GB and 14 GB Travan Data Cartridges.

Backward read (Windows 95/98 NT WS 4.0 only): HP Colorado 5 GB, 8 GB and T4 backup tapes

performance

8GB: Internal: 70 MB/min** External: 45 MB/min**

14GB: Internal: 90 MB/min** - External: 45 MB/min**

20GB: Internal: 110 MB/min** - External: 45 MB/min**

MTBF

media

>250,000 power-on hours

8GB: HP Colorado 8GB/5GB Travan Data Cartridge

14GB: HP Colorado 14GB Travan Data Cartridge

20GB: HP Colorado 20GB Travan Data Cartridge

interface

physical characteristics

weight

O/S compatibility

hardware warranty

products include

Internal: IDE/ATAPI - External: Parallel/EPP

Internal: Fits 3.5" x 1" or 5.25" half-height bays. External: 54.9 x 146 x 207 mm

Internal: 0.5 kg. External: 0.8 kg.

8 MB RAM and 20 MB free hard disk space. Windows 95/98/2000 Pro and Windows NT Workstation 4.0

Two year limited; software support 90 days

All products include: tape drive, Colorado Backup II for NT 4.0 Workstation and Win 95/98, Windows 2000 Professional, for 'with media' options, see ordering information, documentation on CD, Install Assistant on CD, installation placemat. **Internal models also include:** IDE Ribbon cable, faceplates and mounting screws. **External models also include:** parallel port cable, power cable and power supply. **5GB to 8GB Upgrade Kit includes:** firmware upgrade, installation software and user guide. **Integrator pack includes:** HP Colorado II Disaster Recovery for Win NT, 98, 95, Windows 2000 Professional (screws, cable, media not included).

ordering information

C4386B	HP Colorado 8GBi with media	C4407A	HP Colorado 14GBi with media
C4387B	HP Colorado 8GBi	C4408A	HP Colorado 14GBi
C4388B	HP Colorado 8GBi with media	C4452A	HP Colorado Integrator Pack (10 x 14GB internal branded mechanisms)
C4389B	HP Colorado 8GBi	C4436A/D	HP Colorado 14GB mini data cartridge (pack of 1/5)
C4466A	HP Colorado 5GB - 8GB Upgrade Kit	C4445A	HP Colorado 20GBi with media
C4390B	HP Colorado Integrator Packs (10 x 8GB internal branded mechanisms)	C4446A	HP Colorado 20GBi
C4425A/B/D	HP 8GB TR-4 mini data cartridge (pack of 1/2/5)	C4447A	HP Colorado 20GBi with media
C4405A	HP Colorado 14GBi with media	C4448A	HP Colorado 20GBi
C4406A	HP Colorado 14GBi	C4435A/D	HP Colorado 20 GB/TR-5 mini data cartridge (pack of 1/5)

* Assuming 2:1 compression.

** Typical performance based on a Pentium® 200 Mhz MMX PC with a PCI dual FIFO controller, 32 MB RAM and enhanced parallel port (external model), using compressed mode. Backup performance may vary by system.

hp surestore t20 range



versatile backup for workstation and pc servers

Affordable, easy to use tape backup and full system protection for entry level SCSI or IDE servers and PC workstations with 20GB capacity makes this the ideal solution for growing businesses.

key features

hp surestore t20 range

- The T20 series offers SCSI solution for full backup plus disaster recovery for W95/98/2000 Professional and NT Workstation, and full backup for Windows NT 4.0, Windows 2000 Server, NetWare 4.x/5.x, Linux Red Hat 5.2/6.0/6.1
- In addition, the T20X offers SCSI solution for full backup plus disaster recovery for Windows, Windows 2000 Server, and the T20XAi offers all of this with IDE interface.
- Simple user interface with all models.
- Auto-throttle feature optimises performance by matching drive rate to computer data rate.
- One-button backup and scheduler.
- HP TapeAssure and TapeAlert ensures that industry leading levels of reliability are maintained at all times.
- Two-year Express Exchange warranty.

technical specifications

capacity
read/write compatibility
read only compatibility
performance
MTBF
media
interface
dimensions (h x w x d)
weight

20GB compressed* (10GB native) on TR-5 data cartridge

HP 20GB, Travan TR-5, QIC-3220 and HP 14GB tapes**

HP 8GB, TR-4 QIC-3095

60 MB/min maximum sustained transfer rate (up to 120 MB/min compressed*)

250,000 hours at 20% duty cycle

HP 20GB Travan Data-cartridge, TR-5

T20i/T20Xi: SCSI-2, narrow, single-ended, 50-pin dual row. **T20e/T20Xe:** SCSI-2, narrow, single-ended, 50-pin high density. **T20XAi:** IDE/ATAPI

T20i, T20Xi, T20XAi: 5.25-inch half-height, 43 x 149 x 206 mm; **T20e, T20Xe:** 56 x 147 x 208 mm

T20i, T20Xi, T20XAi: 1 lb 3 oz (0.5 kg); **T20e, T20Xe:** 1 lb 13 oz (0.8 kg)

O/S compatibility

		T20	T20X	T20XA
Servers:	Windows NT 4.x	Yes	Yes	Yes
	Windows 2000	Yes	Yes	Yes
	Novell NetWare 4.x/5.x	Yes	Yes	No***
	Linux - Red Hat 5.2/6.0/6.1	Yes	Yes	Yes (with tar/cpio)
	Windows 95/98	Yes	Yes	Yes
	Windows NT Workstation 4.0	Yes	Yes	Yes
Workstations:	Windows 2000 Pro	Yes	Yes	Yes

all products include

Documentation, screws, rail kit, tape, internal or external tape drive, Colorado Backup II (Windows 95, 98, NT Workstation 4.0, Windows 2000 Professional, Backup and Disaster Recovery). **T20 and T20X also include:** Yosemite Technologies CD (containing TapeWare Software, supporting Windows NT 4.0, Windows 2000 Server, Netware 4.11, 5.0, Red Hat Linux 5.2, 6.1, 6.2), SCSI cable and power supply (externals only). **T20XAi also includes:** Yosemite Technologies CD (containing TapeWare Software, supporting Windows NT 4.0, and Windows 2000 Server, Red Hat Linux 5.2, 6.1, 6.2), IDE/ATAPI cable

ordering information

C4394B	HP SureStore T20i - 20 GB compressed* internal Travan TR-5 drive with backup software for servers, peer-to-peer networks or PC workstations
C4395B	HP SureStore T20e - 20 GB compressed* external Travan TR-5 drive with backup software for servers, peer-to-peer networks or PC workstations
C4401B	HP SureStore T20Xi - 20 GB compressed* internal Travan drive with backup and disaster recovery software for servers
C4497B	HP SureStore T20XAi - 20 GB compressed* internal IDE/ATAPI drive with disaster recovery
C4402B	HP SureStore T20Xe - 20 GB compressed* external Travan drive with backup and disaster recovery software for servers
C4396B	Replica Single Server for HP SureStore Tape (Disaster Recovery upgrade)
C4491B	TapeWare Software Upgrade with Disaster Recovery for Windows 4.x/2000 Server, Netware 4.x/5.x and Red Hat Linux 5.2, 6.1, 6.2

*Capacities and transfer rates assume a typical 2:1 ratio. **Do not share tapes used in a HP Colorado 14GB or 20GB drive with a HP SureStore T20 drive, because the HP Media Monitor usage level will reset. ***T20XA is not compatible with Novell NetWare 4.x/5.x

hp surestore dat8 & dat24 drives



affordable drives
offering great
performance for small
businesses

These backup solutions provide excellent performance and reliability for network managers and PC workstation users. Plus, both come complete with everything needed for quick, simple and reliable backup, including HP One-Button Disaster Recovery.

hp surestore dat8 & dat24 drives

key features

- HP One-Button Disaster Recovery does exactly what its name suggests, making it the world's fastest, simplest disaster recovery solution. It is compatible with Windows NT, Windows 95/98/2000, NetWare 4.x, 5.x and Linux.
- HP TapeAssure verifies that installation has been correctly completed.
- TapeAlert monitors both drive and media and pre-warns on any problems.
- DAT24 drives transfer data at 7.2 GB/hour to meet the demands of busy organisations.
- HP has tested and proved the compatibility of these drives with top server brands including Compaq, Dell, HP and IBM, as well leading operating systems and backup software.
- Three-year Express Exchange (registration required for years 2 and 3).
- HP SupportPack 3-year, next-day response.

technical specifications

capacity	DAT8: 4 GB native, typically 8 GB with hardware data compression*, on a DDS-2 data cartridge DAT24: 12 GB native, typically 24 GB with hardware data compression*, on a DDS-3 data cartridge
recording format	DAT8: ANSI/ISO/ECMA DDS-2 DAT24: ANSI/ISO/ECMA DDS-2 and DDS-3
media	DAT8: DDS-2 (8 GB*) and DDS-1 (2.6 GB* and 4 GB*) Media Recognition System cartridges DAT24: DDS-3 (24 GB*), DDS-2 (8 GB*) and DDS-1 (2.6 GB*) and 4 GB*) Media Recognition System Cartridges
interface	Single-ended, narrow SCSI-2
transfer rate sustained	DAT8: 510 KB/s (1.8 GB/h) native, typically 1 MB/s (3 GB/h) with hardware data compression* DAT24: 1 MB/s (3.6 GB/h) native, typically 2 MB/s (7.2 GB/h) with hardware data compression*, using DDS-3 data cartridge
transfer rate burst	DAT8: 3 MB/s maximum asynchronous, 10 MB/s maximum synchronous
search speed	DAT8: 40 seconds average file access using a DDS-2 data cartridge DAT24: 40 seconds average file access using a DDS-3 data cartridge
mtbf	DAT8i, DAT24i: 300,000 hours at 12% duty cycle DAT8e/eU, DAT24e/eU: 200,000 hours 12% duty cycle
dimensions (hwxwd)	DAT8i, DAT24i: 41 x 150 x 158 mm DAT8e/eU, DAT24e/eU: 95 x 116 x 220 mm
weight	DAT8i: 0.9 kg DAT8e: 2.5 kg DAT24i: 1 kg DAT24e: 2.6 kg DAT8eU: 1.95 kg DAT24eU: 1.95 kg
form factor (internal)	DAT8: 5.25 inch, half-height DAT24: 5.25-inch, half-height, or 3.5-inch, half-height
power requirements	DAT8i: +5V DC 0.8A; +12V DC, 0.1A DAT24i: +5V DC 1.2 A; +12V DC, 0.1A DAT8e, DAT24e: 100-240V, 0.5A, 50-60 Hz DAT8eU, DAT24eU: 100-240V, 0.8A, 50-60 Hz
hardware warranty	Three-year Express Exchange**
all products include	Installation Guide, HP SureStore Tape CD-ROM (containing electronic User's Guide, drivers, HP TapeAssure & HP Tape Tools software diagnostics), Yosemite Technologies CD (containing TapeWare software, supporting Windows 95, 98, NT Server and Netware 4.x and 5.x, Red Hat Linux 5.2 & 6, and Windows 2000.) HP One-Button Disaster Recovery is supported by Windows NT, Windows 95, 98, 2000, NetWare 4.x, 5.x and Linux, warranty registration card. HP NetServer L-series mounting tray; HP Brio/Vectra/Kayak and HP NetServer E-series rails, Compaq rails, screws, 50-68 pin adapter. Internal models also include: HP NetServer L-series mounting tray, HP Brio/Vectra/ Kayak and HP NetServer E-series rails, Compaq rails, screws and 50-68 pin adapter. External models also include: SCSI cable (50-pin low density to 68-pin high-order line termination, single ended, 1-metre), SCSI terminator, power cable, power supply (eU models only).
ordering information	C1528K HP SureStore DAT8i - 8 GB* internal DDS-2 drive for PC or UNIX® C1529K HP SureStore DAT8e - 8GB* external DDS-2 drive for PC C1552D HP SureStore DAT8eU - 8 GB* external DDS-2 drive for UNIX® C1555D HP SureStore DAT24i - 24 GB* internal DDS-3 drive for PC or UNIX® C1556D HP SureStore DAT24e - 24GB* external DDS-3 drive for PC C5653C HP SureStore DAT24eU - 24 GB* external DDS-3 drive for UNIX®

hp surestore dat40

the world's fastest
dds-4 solution



The HP SureStore DAT40 range is a DDS-4 tape drive with 40 GB capacity and a 3 MB/second transfer rate that combines the fastest DAT performance in the industry - 40 GB in less than 2 hours - with highly reliable data backup and restore, and HP One-Button Disaster Recovery.

hp surestore dat40

key features

- HP One-Button Disaster Recovery does exactly what its name suggests, making it the world's fastest, simplest disaster recovery solution
- The world's fastest DDS drive transfers 40 GB in less than two hours.
- Cuts almost two hours from a 40 GB backup compared to DLT 40.
- HP's patented Advanced Sequence Detector and intelligent track positioning maximise write, read and interchange reliability.
- Complete out of the box solution ensures extremely economic total cost of ownership.
- Three-year Express Exchange (registration required for years 2 and 3).
- SupportPack warranty upgrade available.

technical specifications

capacity recording format media

20 GB native, 40 GB with hardware data compression* on a DDS-4 data cartridge
ANSI/ISO/ECMA, DDS-2, DDS-3 and DDS-4
DDS-4 (40 GB*), DDS-3 (24 GB*), DDS-2 (8 GB*) Media Recognition System cartridges (No 60m DDS-1 tape compatibility, 90m DDS-1 tapes read only)

interface

sustained transfer rate

burst transfer rate

search speed

MTBF

dimensions (h x w x d)

weight

form factor (internal)

power requirements

hardware warranty

all products include

LVD/SE Wide Ultra SCSI-2

3 MB/s (10.8 GB/h) native, 6 MB/s (21.6 GB/h) with hardware data compression*

6 MB/s maximum asynchronous, 40 MB/s maximum synchronous

50 seconds average file access time using a DDS-4 data cartridge

400,000 hours at 12% duty cycle

DAT40i: 41 x 147 x 162 mm (1.6 x 5.8 x 6.4 in)

DAT40e: 95 x 116 x 220 mm (3.7 x 4.6 x 8.7 in)

DAT40i: 1 kg (2.2 lbs)

DAT40e: 2.1 kg (4.6 lbs)

5.25-inch, half-height, or 3.5-inch half-height

DAT40i: +5V DC, 0.9A; +12V DC, 1.5A peak (< 1 sec)

+5V DC, 0.5A; +12V DC, 0.5A typical

DAT40e: 100 - 240V, 0.5A, 50 - 60Hz

Three-year Express Exchange**

Installation Guide, HP SureStore Tape CD-ROM (containing electronic User's Guide, drivers, HP TapeAssure & HP Tape Tools software diagnostics), Yosemite Technologies CD (containing TapeWare software, supporting Windows 95, 98, NT Server and Netware 4.x and 5.x, Red Hat Linux 5.2 & 6, and Windows 2000.) HP One-Button Disaster Recovery is supported by Windows NT, Windows 95, 98, 2000, NetWare 4.x, 5.x and Linux, warranty registration card.

DAT40i also includes: 3.5-inch conversion kit, HP NetServer L-series mounting tray, HP Brio/ Vectra/Kayak and HP NetServer E-series rails, Compaq rails, mounting screws.

DAT40e also includes: SCSI cable (68-pin to 68-pin, LVD/SE Ultra2 capable, 0.9 meter), LVD/SE SCSI multi-mode terminator, power cable.

ordering information

C5686A HP SureStore DAT40i - 40 GB* internal DAT drive for PC or UNIX®
C5687A HP SureStore DAT40e - 40 GB* external DAT drive for PC or UNIX®

hp surestore
dat24x6 &
dat40x6



**reduce administration,
increase reliability
with these dds
autoloaders**

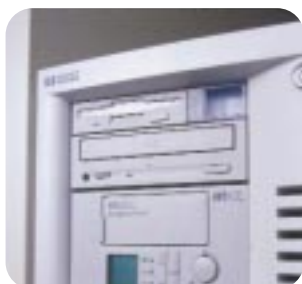
The intrinsic reliability and convenience of an automated backup solution deliver a number of key benefits over single-drive products.

key features

hp surestore dat24x6 & dat40x6

- TapeWare software enables users to schedule five daily backups plus cleaning.
- If one tape is full, the autoloader simply moves on to the next cartridge.
- DAT40x6 model includes HP One-Button Disaster Recovery.
- DDS-3 and DDS-4 offer the lowest cost of ownership per GB of any tape format.
- 40x6 drive transfers data at industry-leading rate of over 20 GB/hour.
- HP TapeAssure ensures correct installation, TapeAlert pre-warns on any drive or media problems, HP Tape Tools simplifies troubleshooting.
- HP has tested and proved the compatibility of these drives with leading server brands, operating systems and backup software.
- Three-year Express Exchange (registration required for years 2 and 3).
- SupportPack warranty upgrade available.

hp surestore dat24x6 & dat40x6



technical specifications capacity

recording format

media

interface

transfer rate sustained

transfer rate burst

cartridge load time

search speed

MTBF

dimensions (hwxwd)

weight

form factor (internal)

power requirements

hardware warranty

all products include

ordering information

The autoloader contains a removable 6-slot magazine.

DAT24x6: For maximum performance: five DDS-3 data cartridges plus one cleaning cartridge. Each DDS-3 cartridge offers 24 GB* capacity.

DAT40x6: Recommended option for use: five DDS-4 data cartridges plus one cleaning cartridge. Each DDS-4 cartridge offers 40 GB* capacity.

DAT24x6: ANSI/ISO/ECMA DDS, DDS-DC, DDS-2 and DDS-3

DAT40x6: ANSI/ISO/ECMA DDS-2, DDS-3 and DDS-4

DAT24x6: DDS-3 (24 GB*), DDS-2 (8 GB*) and DDS-1 (2.6 GB*) and 4 GB*) Media Recognition System Cartridges

DAT40x6: DDS-4 (40 GB*) DDS-3 (24 GB*), DDS-2 (8 GB*) Media Recognition System Cartridges (90 m DDS-1 tapes read only, no 60 m DDS-1 tape compatibility)

DAT24x6: Single-ended, narrow SCSI-2

DAT40x6: LVD/SE Wide Ultra SCSI-2

DAT24x6: 1 MB/s (3.6 GB/h) native, typically 2 MB/s (7.2 GB/h) with hardware data compression*, using DDS-3 data cartridge;

DAT40x6: 3 MB/s (10.8 GB/h) native, typically 6 MB/s (21.6 GB/h) with hardware data compression*, using DDS-4 data cartridge

DAT24x6: 3 MB/s maximum asynchronous, 10 MB/s maximum synchronous;

DAT40x6: 6 MB/s maximum asynchronous, 40 MB/s maximum synchronous

DAT24x6: 30 seconds typical

DAT40x6: 14 seconds typical

DAT24x6: 40 seconds average file access using a DDS-3 data cartridge

DAT40x6: 40 seconds average file access using a DDS-4 data cartridge

DAT24x6: 55,000 hours at 30% duty cycle

DAT40x6: 100,000 hours at 30% duty cycle

DAT24x6i, DAT40x6i: 83 x 146 x 203 mm (3.25 x 5.75 x 8.0 in)

DAT24x6e, DAT40x6e: 135 x 165 x 269 mm (5.3 x 6.5 x 10.6 in)

DAT24x6i: 2.2 kg (4.8 lbs)

DAT24x6e: 4.8 kg (10.56 lbs)

DAT40x6i: 2.1 kg (4.6 lbs)

DAT40x6e: 4.65 kg (10.23 lbs)

DAT24x6: 5.25 inch full-height

DAT40x6: 5.25 inch full-height

DAT24x6i: Autoloader: +5V DC 0.75 A; +12V DC, 2.0A Mechanism: +5V DC 1.2 A; +12V DC, 1.0A

DAT24x6e: 100-240V, 0.6A, 50-60 Hz

DAT40x6i: Autoloader: +5V DC 0.75 A; +12V DC, 2.0A Mechanism: +5V DC 0.6 A; +12V DC, 1.2A

DAT40x6e: 100-240V, 0.6A, 50-60 Hz

Three-year Express Exchange**

Installation Guide, HP SureStore Tape CD-ROM (containing electronic User's Guide, drivers, HP TapeAssure & HP Tape Tools software diagnostics), and MTX autoloader utility for UNIX, Yosemite Technologies CD (containing TapeWare software, supporting Windows 95, 98, NT Server and Netware 4.x and 5.x, Red Hat Linux 5.2 & 6, and Windows 2000.) HP One-Button Disaster Recovery is supported by Windows NT, Windows 95, 98, 2000, NetWare 4.x, 5.x and Linux, warranty registration card.

Internal models also include: HP NetServer L-series mounting tray; Compaq rails; DC power Y cable extender.

DAT24x6e also includes: SCSI cable (50-pin low-density to 68-pin, high-order line termination, single-ended, 1 metre), SCSI terminator, power cable.

DAT40x6e also includes: SCSI cable (68-pin to 68-pin, LVD/SE Ultra2, 1.5 meter), LVD/SE SCSI multi-mode terminator, power cable.

C5677B HP SureStore DAT24x6i

C1559C HP SureStore DAT24x6e

C5716A HP SureStore DAT40x6i

C5717A HP SureStore DAT40x6e

C1570A HP DDS autoloader magazine pre-loaded with five DDS-3 data cartridges and one DDS cleaning cartridge

C7436A HP DDS autoloader magazine pre-loaded with five DDS-4 data cartridges and one DDS cleaning cartridge

H3155A/E HP SupportPack 3-year, next-day response (DAT24x6e/40x6e)

H4616A/E HP SupportPack 3-year, 4-hour response (DAT24x6e/40x6e)

hp surestore dlt 1



brings dlt technology
within the budget of
more businesses than
ever before

new!

HP's new drive offers the reassurance of proven DLT technology with up to twice the capacity, and three times the transfer rate as similarly-priced competitors. With an outstanding price/performance ratio the HP SureStore DLT 1 recognises that companies of all types and sizes now face rapidly-expanding data protection requirements and cannot afford to compromise on quality and reliability.

key features

hp surestore dlt1

- With compressed capacity of 80 GB this means that small to medium-sized storage servers or workstations can be backed up on one single tape cartridge.
- Transfers data at up to 6 MB/second for a significant leap forward in price/performance.
- Read compatible with data written by DLT4000 devices, and technology is scalable to higher capacities and transfer rates in the future (similar head technology used in SuperDLT)
- Compatible with all key backup software applications.
- TapeSense System™ rejects damaged media to ensure reliability is not compromised.
- Roller design minimises lateral tape movement
- Backs up data in shorter time window
- Plug and play connectivity with top server brands
- Designed, tested & certified to guarantee data integrity
- Up to 200,000 hr MTBF at 100% duty cycle
- Three-year, next-day, unit exchange.

technical specifications

capacity
sustained transfer rate
burst transfer rate
average file access
interface
recording format
recording density
track density
encoding method
data compression
MTBF
head life
uncorrected error rate
undetected error rate
read while write
O/S compatibility
dimensions
unit weight
shipping weight
temperature
humidity
power requirements
+5 (± 5%)* volt bus
+12 (± 5%)* volt bus

40 GB native, 80 GB compressed
3 MB/second native, 6 MB/second compressed
20 MB/second synchronous
68 seconds
Wide Ultra SCSI LVD (Low Voltage Differential)
168 tracks (84 logical track pairs)
123 Kbp
336 tpi
RLL 1,7
DLZ
>200,000 hours at 100% duty cycle
>30,000 hours
1x10¹⁷ bits read
1x10¹⁷ bits read

Windows NT/95/98/2000, Redhat Linux, Novell Netware 4.2/5.0
internal: 86.36 x 144.8 x 202.95mm
external: 100.08 x 212.85 x 277.88mm
internal: 1.70kg; external: 3.94kg
internal: 2.66kg; external: 6.02kg
operating: 20% - 80% non-condensing; **non-operating:** 10 - 95%
operating: 10 - 40° C; **non-operating:** -40 - 66° C

1.3 A idle, 1.6 A maximum
0.4 A idle, 1.1 A maximum

all products include

Internal or external tape drive, HP SureStore DLT1 internal or external assembly, SureStore front panel, HP SureStore DLT1 packaging assembly, HP SureStore DLT1 kit, DAT reply card and label, TapeWare CD, SureStore CD, DLTape IV cartridge, cleaning cartridge, DLT1 LP set, Media Flyer (mousemat), tamper proof seal.

External model also contains: 1.5m SCSI Cable (68hd to 68hd), terminator

Internal model also includes: DLT Tray Kit, DLT Drive 5 Screw Pack, Compaq Rail-Kit, Pack of 5 Jumpers

ordering information

C7483A HP SureStore DLT1e
C7484A HP SureStore DLT1i

* Voltage measured at the power bus connector pins

hp surestore dlt 40 & dlt 80



data protection for medium to large networks



These high-performing backup solutions offer the highest levels of reliability, connectivity and data integrity in their class. Network interruption is minimised by protecting up to 43.2 GB/hour of data and storing up to 80 GB on one piece of media. Unlike other DLT providers the HP SureStore DLT 40 & 80 offer guaranteed connectivity to a wide range of server systems and backup software applications.

hp surestore dlt 40 & dlt 80

key features

- 40-80 GB on a tape covers virtually any single backup operation.
- Transfer rates of 10.8 GB/hour (DLT 40) and 40 GB/hour (DLT 80) keep network downtime during backup to a minimum.
- HP TapeAssure ensures correct installation, TapeAlert pre-warns on any drive or media problems, HP Tape Tools simplifies troubleshooting.
- HP has tested and proved the compatibility of these drives with leading server brands, operating systems and backup software.
- DLT 80 can be used with existing SCSI and new LVDS equipped systems.
- Three-year Express Exchange (registration required for years 2 and 3), rackmount model is covered by 3-year on-site warranty.
- SupportPack warranty upgrade available.

technical specifications

capacity	DLT 40i/e/r/m: 20 GB native, typically 40 GB with hardware data compression DLT 80i/e/r/m: 40 GB native, typically 80 GB with hardware data compression DLT 40i/e/r/m: DLT-4; DLT 80i/e/r: DLT-5
recording format	HP DLTape IV data cartridge
media	DLT 40i/e: Single-ended, narrow SCSI-2
interface	DLT 40r/80r: SCSI-2, SCA-2 connector (combined power & SCSI-2) for HP SureStore TapeRack DLT 80i/e/m: LVD/SE wide ultra SCSI-2
transfer rate sustained	DLT 40i/e/r/m: 1.5 MB/s (5.4 GB/h) native, typically 3 MB/s (10.8 GB/h) with hardware data compression
search speed	DLT 80i/e/r/m: 6 MB/s (21.6 GB/h) native, typically 12 MB/s (43.2 GB/h) with hardware data compression
head life	DLT 40i/e/r/m: 45 seconds average to locate a file in 40 GB of data DLT 80i/e/r/m: 60 seconds average to locate a file in 80 GB of data
cartridge life	DLT 40i/e/r/m: 10,000 tape motion hours
MTBF	DLT 80i/e/r/m: 30,000 tape motion hours (continuous operation)
dimensions (h x w x d)	DLT 40i/e/r/m: 500,000 passes DLT 80i/e/r/m: 200,000 hours DLT 40i/80i: 86 x 148 x 244 mm (3.38 x 5.83 x 9.60in) DLT 80e: 160 x 175 x 325 mm (6.3 x 6.9 x 12.8in) DLT 40r/80r: 108 x 165 x 291 mm DLT 80m: 108 x 165 x 291 mm DLT 40e/80e: 6.63 kg (14.56 lbs) DLT 80m: 3.4 kg
weight	DLT 40i: 5V DC, 2.5A; 12V DC, 0.8A DLT 40e: 100-240V, 0.55A, 50-60Hz DLT 40r: 5V DC, 2.5A; 12V DC, 0.8A DLT 80m: 5V DC, 3.6A; 12V DC, 1.6A
power requirements	DLT 40e/80e: 6.63 kg (14.56 lbs) DLT 80m: 3.4 kg DLT 80i: 5V DC, 3.6A; 12V DC, 1.6A DLT 80e: 100-240V, 0.7A, 50-60Hz DLT 80r: 5V DC, 3.6A; 12V DC, 1.6A
hardware warranty	Three-year Express Exchange
all products include	Internal or external drive, Yosemite Technologies CD (containing TapeWare software, supporting Windows NT Server and Network 4.x and 5.x, Red Hat Linux 5.2 & 6, and Windows 2000), warranty registration card, installation guide, HP SureStore Tape CD-ROM (containing electronic User's Guide, drivers, HP TapeAssure, HP Tape Tools software diagnostics). All DLT 80 drives also include: multi-language front panel labels. All internal models also include: mounting tray for HP Net Servers, jumpers, Compaq rails, screws, one HP DLTape IV data cartridge, one HP DLTape cleaning cartridge. DLT 40i also includes: 50-to-68 pin adapter. DLT 40e also includes: SCSI cable (50-pin low-density to 68-pin, high order line termination, single-ended, 1 metre), SCSI terminator, power cable. DLT 80e also includes: 1.5m external SCSI cable, (68-pin high-density), power cable. DLT 40 and 80r/m also include: drive mounted in hot-swap cradle.

ordering information

C5647A	HP SureStore DLT 40i	C5725A	HP SureStore DLT 80i
C1579A	HP SureStore DLT 40e	C5726A	HP SureStore DLT 80e
C5697A	HP SureStore DLT 40r	C5727A	HP SureStore DLT 80r
		C7456A	HP SureStore DLT 80m
H3157A/E	HP SupportPack 3-year, next-day response (DLT 40/80e/r/m)		
H4617A/E	HP SupportPack 3-year, 4-hour response (DLT 40/80e/r/m)		

hp surestore rack kits



racking for a variety
of removable tape
drive formats

The HP SureStore k rack optimised kits allow external DLT or DAT k drives to be racked at a low price point. The modular design allows users to add, remove or share DLT/DAT drives without taking the host system/network down. The k Rack kits not only provide standardised 19" racking capability but also deliver benefits the Data Centre manager prefers.

key features

hp surestore rack kits

- Use the storage devices and formats that you need now, with the ability to increase or change the number or type of drives you use in the future.
- 3U supports a combination of full-height and/or half-height drives.
- Modular design allows users to design the system specifically for their own environment, and drives can be added, removed or shared without rebooting server.
- Supports industry standard parallel streaming software that can cut the backup window in half.
- Dual redundant load sharing power supplies, redundant cooling fans and dual SCSI channels mean your storage is always working.
- Three-year, Next Day Exchange.
- SupportPack warranty upgrade available.

technical specifications dimensions (h x w x d)

weight

data interface

capacity

media

data interface

sustained transfer rate

burst transfer rate

MTBF

dimensions (h x w x d)

weight

dimensions (h x w x d)

weight

data interface

capacity

media

data interface

sustained transfer rate

MTBF

dimensions (h x w x d)

weight

products include

HP SureStore 2Uk Rack Kits

80.1mm x 482.6mm x 251.7mm

4.85 Kgs

2 Wide high-density 68-pin connectors per k-module (4 total).

HP Surestore DAT24k

12 GB native, typically 24 GB with hardware data compression*, on a DDS-3 data cartridge
DDS-3 (24 GB*), DDS-2 (8 GB) and DDS-1 (2.6 GB* and 4 GB*) Media Recognition System cartridges

68-pin with blind mate connector

1 MB/s (3.6 GB/h) native, typically 2 MB/s (7.2 GB/h) with hardware data compression*, using DDS-3 data cartridge

3 MB/s maximum asynchronous, 10 MB/s maximum synchronous

200,000 hours at 12% duty cycle

62mm x 215mm x 273mm

2.72 Kgs

HP SureStore 3Uk Rack Kits

132.6mm x 482.6mm x 251.7mm

5.76 Kgs

2 Wide high-density 68-pin connectors per k-module (8 total). Both narrow single-ended and wide differential products supported

HP Surestore DLT 40k

20 GB native, typically 40 GB with hardware data compression*

HP DLTape IV data cartridge

68-pin with blind mate connector

1.5 MB/s (5.4 GB/h) native, typically 3 MB/s (10.8 GB/h) with hardware data compression*

200,000 hours

125mm x 215mm x 273mm

5.85 Kgs

HP Surestore DAT40k

20 GB native, 40 GB with hardware data compression*, on a DDS-4 data cartridge
DDS-4 (40 GB*), DDS-3 (24 GB), DDS-2 (8 GB* and 4 GB*) Media Recognition System cartridges (No 60m DDS-1 tape compatibility, 90m DDS-1 tapes read only)

68-pin with blind mate connector

3 MB/s (10.8 GB/h) native, 6 MB/s (21.6 GB/h) with hardware data compression*

6 MB/s maximum asynchronous, 40 MB/s maximum synchronous

400,000 hours at 12% duty cycle

62mm x 215mm x 273mm

2.72 Kgs

HP Surestore DLT 80k

40 GB native, 80 GB with hardware data compression*

HP DLTape IV data cartridge

68-pin with blind mate connector

6 MB/s (21.6 GB/h) native, up to 12 MB/s (43.2 GB/h) with hardware data compression*

250,000 hours

125mm x 215mm x 273mm

5.85 Kgs

HP SureStore 2Uk/3Uk Rack kits include: user documentation, warranty registration card, external 0.5m SCSI cable (68-pin high-density to 68-pin high density). SCSI terminator (LVD/single-ended active 68-pin high density), Y-power cable, rack rails. **HP SureStore DAT and DLT k drives include:** HP SureStore Tape CD-ROM (containing electronic User's Guide, drivers, HP TapeAssure & HP Tape Tools software diagnostics), Yosemite Technologies CD (for details please refer to DAT8 & 24, page 02.03); HP DAT drives support HP One-Button Disaster Recovery; user manual; one HP DAT/DLT tape data cartridge; one HP DAT/DLT tape cleaning cartridge; 2.5M SCSI cable (68-pin high-density to 68-pin high density); SCSI 68-pin terminator; power cable.

* All capacities and transfer rates quoted as typical use a 2:1 compression ratio; this may vary since compression is data dependent

hp surestore
ha tape array
5500



scalable, high-
availability,
5-bay enclosure
for 19" racks

new!

Together with HP's hot-swap and removable DLT drives, these rackmountable solutions provide high-performance, scalable data storage using rackmount servers. The HP SureStore HA Tape Array 5500 offers high performance data protection with exceptional data integrity for short backup windows.

key features

hp surestore ha tape array 5500

- Supports half and full-height removable media in a Unix only or Intel-based environment using DDS, DLT and (when drives are available) Ultrium.
- All drives include full hot-swap capabilities. If one drive fails it can be replaced without server downtime.
- Array and mirroring capability provides added security when saving data to tape (dependent on application software).
- Multi-channel, ultra-wide SCSI buses allow streaming from five channels.
- User configurable single channel (all 5 drives on one channel).
- Supports 1 to 5 high-performance DLT 80 and LTO drives.
- Support for major ISV RAID software.
- HP SureStore Tape Array series have been tested with all leading array software, operating systems and servers.
- 5 drive bays with 4U of rack space.
- One-year, next day, on-site warranty.
- Three-year SupportPack warranty upgrade available.

technical specifications

drive capacity

recording format

interface

maximum configuration

dimensions (h x w x d)

weight

power requirements

hardware warranty

HP SureStore DLT 80m (80 GB*)

DLT-5 (DLT 80m)

LVD/SE wide-ultra SCSI-2 5 daisy chain capable channel buses.

215 GB/hr

508 x 609 x 914 mm (20 x 24 x 36 in)

16 kg (35 lbs)

525W, 100-127 V AC, 200-240 V AC

Three-year Express Exchange.

products include

Enclosure including H/S power supply and fans, 68-pin-68-pin daisy chain cable, Y power manual, manual, mounting template.

ordering information

tape array enclosures

tape drives

C1354A	HP SureStore HA Tape Array 5500
H4618A/E	HP SupportPack 3-year, 4-hour response (Tape Array)
C7456A	HP SureStore DLT 80m
H3147A/E	HP SupportPack 3-year, next-day response (DLT 80m)
H4617A/E	HP SupportPack 3-year, 4-hour response (DLT 80m)

hp surestore
ultrium 230



revolutionary
performance,
reliability and
capacity

Ultrium significantly extends the boundaries of storage tape reliability, capacity and performance to cover the demands of high-end commercial network servers. Organisations can invest in HP Ultrium, confident in the knowledge that their needs are covered now and in the future.

Virtually all organisations are facing a digital data explosion. And in global businesses there is no backup window, with IT staff under increasing pressure to keep networks permanently up. At a strategic level, IT directors are being challenged to future-proof their systems and integrate storage solutions which contribute to overall corporate efficiency and productivity. This puts a premium on flexibility, scalability, cost-effectiveness, space efficiency and compatibility with current systems.

hp surestore ultrium 230

key features

- Backs up 200 GB to one tape cartridge in less than two hours.
- LTO-CM (cartridge memory) speeds up load/unload and data access, by storing Tape ID, usage, history, error rates.
- Completely new format designed from the ground up with the best features of previous technologies, and a host of new ones.
- Even if a full track is lost or up to 32mm of tape is unreadable, all data can be recovered.
- Tape Tools 2 ensures correct installation, carries out post-installation check and diagnostic tests.
- Compatible with existing IT infrastructure, so it can work in parallel with DAT/DLT systems.
- Part of a clearly marked roadmap leading to 1.6TB capacity.
- Includes HP One-Button Disaster Recovery.
- Three-year Express Exchange (system matching on HP systems).
- SupportPack warranty upgrade available.

technical specifications

capacity
recording format
interface
media
burst transfer rate

tape speed
MTBF
dimensions
weight
form factor
power requirements
hardware warranty

Up to 200 GB compressed
Ultrium Generation 1
LVD/SE wide ultra SCSI2
HP Ultrium 200 GB data cartridge
Ultra 2 SCSI narrow - 40 MB/s
Ultra 2 SCSI wide - 80 MB/s
4.1 minutes per second
designed for high reliability
82.5x146x203mm (3.25x5.75x8")
1.9kg
5.25-inch, full-height
Ultrium 230i: 5V DC, 3.6A; 12V DC, 1.6A
Ultrium 230e: 100-240V, 0.7A, 50-60Hz
Three-year Express Exchange

all products include

Tape drive, quick install guide, user manual, 1 Ultrium 200 GB cartridge, 1 Ultrium cleaning cartridge, regulatory flyer, regulatory guide, SureStore CD, warranty registration flyer, mounting rails (for internal model only). Power cable, 68-68 pin 1.5 M LVD SCSI cable (for external models only).

ordering information

C7400A	HP SureStore Ultrium 230i
C7401A	HP SureStore Ultrium 230e
C7470A	HP SureStore Ultrium 230r
H3157A/E	HP SupportPack 3-year, next-day response
H4617A/E	HP SupportPack 3-year, 4-hour response

hp surestore
ultrium 215

the first half-height
tape drive offering
the best price and
performance in
its class

new!

HP's entry-level Ultrium drive enables organisations to invest in this revolutionary new format knowing it significantly extends the boundaries of storage tape reliability, capacity and performance and covers needs now and in the future.

Small to medium businesses and branch offices running a distributed network and primarily LAN backup need to upgrade performance and capacity in order to protect increasing quantities of data in less and less time. In the quest for scalability, reliability and capacity some of them will have looked at autoloaders and small libraries. HP's entry-level Ultrium drive enables them to meet these needs at a much lower cost per GB.

key features

hp surestore ultrium 215

- Capacity of up to 200 GB of compressed data on one tape means fewer swaps, fewer tapes.
- Half height format is configurable into multiple server, rack and automation environments.
- Powered load eliminates manual loading errors.
- Highly robust disaster recovery.
- Tape Tools 2 ensures correct installation, carries out post-installation check and diagnostic tests.
- LTO-CM (cartridge memory) speeds up load/unload and data access offers greater manageability by storing Tape ID, usage, history, error rates.
- Ultrium can work in parallel with DAT/DLT systems and has broad, tested compatibility at launch.
- Part of a clearly marked roadmap leading to 1.6TB capacity.
- Three-years, next day unit exchange (system matching on HP systems)
- SupportPack warranty upgrade available.

technical specifications

capacity

Choice of tapes giving 100 GB or 200 GB compressed

recording format

Ultrium Generation 1

interface

LVD/SE wide ultra SCSI2

media

HP Ultrium 200 GB data cartridge

burst transfer rate

Ultra 2 SCSI narrow - 40 MB/s

tape speed

Ultra 2 SCSI wide - 80 MB/s

MTBF

2.05 minutes per second, 71 seconds using an Ultrium 1 data cartridge (average access time per file) designed for high reliability

dimensions

41.25x146x221mm (1.625x5.75x8.7")

form factor

5.25-inch, half height

power requirements

Ultrium 215i: 5V DC, 3.6A; 12V DC, 1.6A

Ultrium 215e: 100-240V, 0.7A, 50-60Hz

hardware warranty

Three-year Express Exchange

all products include

Tape drive, quick install guide, user manual, 1 Ultrium 200 GB cartridge, 1 Ultrium cleaning cartridge, regulatory flyer, regulatory guide, SureStore CD, warranty registration flyer, mounting rails (for internal model only). Power cable, 68-pin 1.5 M LVD SCSI cable (for external models only).

ordering information

Available Spring 2001

hp surestore
autobackup
25/100



the first intelligent
backup solution
designed for the
networked individual

This market first from HP provides an admin-free means of ensuring that all the data on networked desktop and laptop PCs is backed up, in an ultra-efficient, structured way.

Virtually all organisations hold vast amounts of unprotected data. Because, despite network administrators' instructions, PC users rarely back up their own files, which constitute around 80% of corporate data. This solution is particularly suited to companies with employees who work from home, off-site or on the move. But virtually any company with networked desktop or laptop PCs stands to benefit from this HP innovation.

key features

hp surestore autobackup 25/100

- With Redundant File Elimination and Storage Set Optimisation, HP SureStore AutoBackup only copies changes to files - it doesn't save duplicate files.
- PC25 with 60 GB capacity (approx 25 users), PC100 with 240 GB (approx 100 users).
- Integrated disaster recovery software for point and click DR.
- Built-in CD writer used to create bootable CD on demand.
- Tape drive connectivity for optional appliance disaster recovery.
- 15-minute installation gives instant access to backups from anywhere, at any time.
- Backup is automatically initiated when users connect to the network.
- End users can view and restore files by 'drag and drop'.
- Backup can be scheduled or user-initiated through a simple, familiar window.
- One-year, next day, on-site warranty.
- Three-year SupportPack warranty upgrade available.

technical specifications product variants

pc25: Single 30 GB disk version covers backup for approximately 25 clients*, up to 60 GB data with 3:1 compression ratio

pc100: Twin 40 GB disk version covers backup for approximately 100 clients*, up to 240 GB of data with 4:1 compression ratio

232 x 442 x 448mm

PC25: 12 kg (26.5 lb); **PC100:** 12.5 kg (27.6 lb)

100 Volts AC 150 Watts; 240 Volts AC 135 Watts

100 - 127 Volts AC - 4.0A;

200 - 240 Volts AC - 2.5A; 50 - 60 Hz autoranging

5° - 35°C; 41° - 95°F

10/100 base-T auto-sensing LAN connector (RJ45), ultra-wide SCSI-2 interface (for HP SureStore Tape backup device), requires TCP/IP network protocol

TCP/IP network protocol

Windows 95/98 or Windows 2000 Professional, Windows NT 4.0 for Workstations

Customised thin-server appliance system with internal HP CD-Writer, backup and restore software, power cable, 3 x HP CD-Rs, customer registration card, installation CD and poster

ordering information

C7444A	HP SureStore AutoBackup PC25
H3151A/E	HP SupportPack 3-year, next-day response
H3150A/E	HP SupportPack 3-year, 4-hour response
C7446A	HP SureStore AutoBackup PC100
H4585A/E	HP SupportPack 3-year, next-day response
H4586A/E	HP SupportPack 3-year, 4-hour response

Compatible local backup devices and media

C5717A	HP SureStore DAT40x6e
C5687A	HP SureStore DAT40e
C5726A	HP SureStore DLT 80e
C4437A	HP CD-Recordable media
C5718A	HP DDS-4 data cartridge, 40GB
C5141F	HP DLTtape IV data cartridge

* Figures quoted are for a typical desktop/laptop environment. The actual number of clients that can connected is determined by the amount of data on the client hard disc drives.

hp storage media



hp travan™ minicartridges

HP is the market leader in Travan tape drives, and our branded media is optimised for use with HP Colorado tape drives and other manufacturers' Travan drives

- rigorous testing and quality control
- five-year replacement warranty and up to 20 years' archival life
- 14 GB and 20 GB mini data cartridges feature Media Monitor which pre-warns when a tape needs replacing (HP drives only)

★ Recommended media (optimum speed/capacity)

■ Compatible only media

◆ Read compatible only

¹ HP Media Monitor function not available

*All capacities and transfer rates quoted as typical use a 2:1 compression ratio; this may vary since compression is data dependent

product	compressed capacity*	part no	quantity				
				hp colorado 8gb	hp colorado 14gb	hp colorado 20gb	hp surestore t20
HP Colorado 5GB formatted mini data cartridge	5 GB	HP C4429A	Single	■	◆	◆	◆
		HP C4429D	Box of 5	■	◆	◆	◆
HP 8GB/TR-4 formatted mini data cartridge	8 GB	HP C4425A	Single	★	◆	◆	◆
		HP C4425D	Box of 5	★	◆	◆	◆
HP Colorado 14GB formatted mini data cartridge + HP Media Monitor	14 GB	HP C4436A	Box of 5	★	■	■	■
		HP C4436D	Box of 5		★	■	■
HP 20 GB/TR-5 formatted mini data cartridge	20 GB	HP C4435A	Single	★ ¹	★		
		HP C4435D	Box of 5	★	★		

hp ultrium cartridges

HP's Ultrium tape cartridges carry an intelligent memory chip called LTO-CM (LTO-Cartridge Memory). Information normally stored on the actual tape can be transmitted from the LTO-CM to the drive without physically having to place the tape in the drive.

The LTO-CM holds positioning information so that individual files can be quickly accessed. It stores cartridge identification and usage information for automatic quality monitoring by drives and libraries. This means that libraries can carry out a full profile and usage census on media without having to load and unload individual tapes.

And information stored in the LTO-CM, such as the number of times the cartridge has been loaded, when it was last cleaned and error logs, enables IT managers to predict and diagnose problems.

description	capacity*	part no	
			hp ultrium drive & libraries
HP Ultrium 200 GB Data Cartridge	200 GB	HP C7971A	★
HP Ultrium Cleaning Cartridge	n/a	HP C7979A	★

★ Recommended media (optimum speed/capacity)

*All capacities and transfer rates quoted as typical use a 2:1 compression ratio; this may vary since compression is data dependent

hp storage media



hp dds data cartridges

Guarantee optimum reliability from DDS drives and by using them in conjunction with the very highest quality tapes

- HP DDS Data Cartridges benefit from 1.3 million hours of pollutant, climactic, environmental and ambient testing to ensure ultra-high reliability
- durability specifications for HP DDS Data Cartridges are twice those required to pass the DDS logo requirements
- minimum of 2,000 passes or 100 full backups
- 10-year guaranteed archival life, and limited lifetime replacement warranty

hp dlittape™ cartridges

Extract the maximum performance and reliability from HP SureStore and other DLT tape drives with HP branded media

- superior reliability and performance up to 80 GB
- HP DLTape™ cartridges incorporate the latest advances in binder chemistry to the tape coating for increased durability and performance
- extensive testing delivers archival life of up to 30 years
- cartridges are rated for around 10,000 uses
- limited lifetime replacement warranty

★ Recommended media (optimum speed/capacity)

▲ Read compatible only

■ Compatible only media

* All capacities and transfer rates quoted as typical use a 2:1 compression ratio; this may vary since compression is data dependent

<p>★ Recommended media (optimum speed/capacity)</p> <p>▲ Read compatible only</p> <p>■ Compatible only media</p> <p>* All capacities and transfer rates quoted as typical use a 2:1 compression ratio; this may vary since compression is data dependent</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Products will be shipped in master cartons

DDS Data Cartridges must be ordered from HP in multiples of 10 and cleaning cartridges in multiples of 2

hp service & support

warranty extension

All HP SupportPacks extend the warranty to three years.

next day replacement

Next working day after receipt of call Monday-Friday 08.00 to 17.00 except holidays, exchange of faulty unit with a permanent replacement. This service includes pre-paid freight. Customer must return the defective unit to HP within three working days of receipt of the replacement unit.

3-year, next day response

Next working day after receipt of call Monday-Friday 08.00 to 17.00 except holidays, on-site hardware maintenance.

3-year, 4-hour response

4-hour response Monday-Friday 08.00 to 17.00 except holidays, same day, on-site hardware maintenance.

3-year, 4-hour response, 24x7

4-hour response 24 hours a day, seven days a week, on-site hardware maintenance service.

restrictions

4-hour response (levels three and four) is not generally available for sites more than 150km from an HP service office. Contact your local HP office for details.

HP SupportPacks must be purchased within 90 days of the product purchase.

product numbers and further information

Go to www.connect-online.hp.com - and click on HP Service & Support section.

contact information



europa

austria:	07114-20-10-80
belgium:	(02) 778 3111
bulgaria:	(2) 943 4889
czech republic:	(02) 6130 7111
denmark:	45 99 11 25
east central europe	
(vienna):	+43 125 0000
finland:	(09) 88 721
france:	(1) 69 82 6060
germany:	0180 525 2633 (DM 0.24/minute)
greece:	(01) 689 64 11
hungary:	(1) 382 6666
hp european hq (geneva):	+41 (22) 780 8111
iceland:	(354) 570 1000
ireland:	(01) 28 44 633
israel:	(9) 951 2424
italy hq:	(02) 921 21
italy pre-sales:	(02) 921 22770
luxembourg:	32 02 778 3111
middle east	(971) 4881 5456
netherlands:	(020) 547 6666
norway:	22 73 59 60
poland:	(22) 60 87 700
portugal:	0808 206 001
romania:	(1) 250 6197
ruusia:	(095) 797 3500
slovakia:	(7) 822 026
south africa:	(11) 806 1000
spain:	(91) 631 1600
spanish customer	
information centre:	902 150 151
sweden:	(08) 449 8815
switzerland:	0848 88 44 66
turkey:	(212) 2245 925
uk:	0870 240 2479
ukraine:	(44) 463 6644

asia pacific

australia:	1800 339 862
hong kong:	2599 7066
india:	(11) 682 6069/94
indonesia:	(21) 351 8788 ext. 3436
japan (tokyo):	+81 3 3335 8333
japan (osaka):	+81 6 838 1155
korea:	(02) 3270 0720
malaysia:	(3) 298 1111
new zealand:	0800 246 777
philippines:	(02) 894 1451
prc:	(10) 6564 5858
singapore:	272 1788
taiwan:	(02) 2717 0055
thailand:	(02) 661 4000 ext. 1
vietnam:	(08) 823 4151

latin america

argentina:	0-800-888-10-30
brasil:	0-800-15-77-51
chile:	123-800-360-999
colombia:	980-915-12-98
méxico:	01-800-900-72-00 ó 01-800-472-66-84
perú:	0-800-50-500
puerto rico:	1-877-207-0934
venezuela:	0-800-47-888

tapealert

TapeAlert is a patented HP technology that increases data protection by continually monitoring the status of the tape drive and media. It alerts users of any problems via certified backup software and suggests a course of action to ensure successful data restoration.

tapeassure

HP TapeAssure is a software utility that verifies the drive installation to ensure that it is correctly connected and working; it informs users of any problems.

express exchange

Express Exchange is available in most countries. In those countries which do not currently support Express Exchange, support is provided through either the Low End Support Program or the local parts centre.

compressed capacity

All capacities and transfer rates quoted as typical use a 2:1 compression ratio; this may vary since compression is data dependent.

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